
Mod-3 counter

X05944_en

Design a circuit that implements a mod-3 counter, i.e., it outputs the sequence $0 \rightarrow 1 \rightarrow 2 \rightarrow 0 \rightarrow 1 \rightarrow 2 \rightarrow \dots$.

Specification

```
module mod3_counter(count, clk, rst );  
    input clk, rst ;  
    output [1:0] count;
```

Input

- *clk* is the clock signal.
- *rst* is the synchronous reset signal.

Output

- *count* is the 2-bit output of the counter.

Problem information

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